U.S.S.N. 09/715,965 Filed: November 17, 2000 Amendment

APPENDIX: Clean Copy of Claims as Amended

treat Concor, eTC.

- 1. (three times amended) A method to decrease angiogenesis comprising administering to a site in an individual in need of treatment thereof for an established disorder requiring angiogenesis an effective amount of a purified chondroitinase to decrease angiogenesis at the site, wherein the decrease in angiogenesis is measured as a decrease in endothelial cell proliferation or a decrease in the formation of capillary-like structures.
- 2. (amended) The method of claim 1 wherein the enzyme is selected from the group consisting of chondroitinase AC from Flavobacterium heparinum, chondroitinase B from Flavobacterium heparinum, a chrondoitin sulfate degrading enzyme from Bacteroides species, a chrondoitin sulfate degrading enzyme from Proteus vulgaris, a chrondoitin sulfate degrading enzyme from Microcossus, a chrondoitin sulfate degrading enzyme from Vibrio species, a chrondoitin sulfate degrading enzyme from Arthrobacter aurescens, these enzymes expressed from recombinant nucleotide sequences in bacteria and combinations thereof:
 - 3. The method of claim 1 wherein the enzyme is a mammalian enzyme.
- 4. (amended) The method of claim 8 wherein the enzyme is a chrondroitinase AC.
 - 5. (amended) The method of claim 1 wherein the chondroitinase is chondroitinase

AC.

6. (twice amended) The method of claim 1 wherein the enzyme is administered to an individual having cancer as evidenced by palpable tumors.

4

U.S.S.N. 09/715,965 Filed: November 17, 2000 Amendment

- 7. The method of claim 6 wherein the cancer is a solid tumor and the enzyme is chondroitinase AC.
- 8. (amended) The method of claim 1 wherein the individual has a disorder in which angiogenesis is involved, the disorder being selected from the group consisting of rheumatoid arthritis; psoriasis; ocular angiogenic disease, rubeosis; Osler-Webber Syndrome; myocardial angiogenesis; plaque neovascularization; telangiectasia; hemophiliac joints; angiofibroma; Crohn's disease, atherosclerosis, scleroderma, hypertrophic scarring, adhesions, cirrhosis of the liver, pulmonary fibrosis following acute respiratory distress syndrom or other pulmonary fibrosis of the newborn, endometriosis, polyposis, obesity, uterine fibroids, prostatic hypertrophy, and amyloidosis.
 - 9. The method of claim 1 wherein the enzyme is administered systemically.
- 10. (amended) The method of claim 1 wherein the enzyme is administered locally at or adjacent a site in need of treatment.
- 11. The method of claim 1 wherein the enzyme is administered in a controlled and/or sustained release formulation.
- 19. The method of claim 7 wherein the dosage is in the range of 0.1 to 250 IU chondroitinase AC/tumor for tumors in the size range from 20 mm³ to 15 cm³.
- 20. The method of claim 1 wherein the enzyme is administered in combination with another active agent selected from the group consisting of antibiotics, cytokines, cytotoxic agents, and anti-inflammatories.

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Amendment

pump.

- 21. The method of claim 7 wherein the enzyme is administered after excision of the tumor.
- 22. The method of claim 9 wherein the enzyme is administered by a route selected from the group consisting of intravenous, intra-cranial, and depo.
- 23. The method of claim 9 wherein the enzyme is administered using an infusion
 - 24. The method of claim 1 wherein the enzyme is chondroitinase B.
 - 25. The method of claim 8 wherein the enzyme is chondroitinase B.
- 26. The method of claim 1 wherein the individual has a disorder in which angiogenesis is involved, the disorder being selected from the group consisting of disease of excessive or abnormal stimulation of endothelial cells, diseases that have angiogenesis as a pathologic consequence, and scarring following transplantation,
 - 27. The method of claim 1 wherein the enzyme is administered topically.

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